3Com Megahertz® 10/100 LAN PC Card User Guide

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FCC DECLARATION OF CONFORMITY

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SPECIFICATIONS

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1 INSTALLING THE PC CARD

The 3Com Megahertz® 10/100 LAN PC Card (model 3CCFE574BT) connects a computer to an Ethernet or Fast Ethernet network.

This guide describes LAN card installation and setup for Windows 98®, Windows 95®, and Windows NT®. Refer to the LAN card on-line help utilities for setup for operating systems not described in this guide.

- See "On-Line Documentation" on page 20 for details on installing the on-line documentation and opening it with your Web browser.
- For details on accessing on-line help from DOS, Windows 3.x, and Windows NT 3.51, see "Windows NT 3.51, Windows 3.x, DOS" on page 20.
- If your computer does not have a Web browser installed, see "DOS Diagnostics Help Library" on page 20.

Check the on-line documentation for the latest information on this product, including Release Notes. You can also obtain the same information from the README.TXT file in the \HELP directory on the *Installation Disk*.

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Inserting the LAN Card

Slide the LAN card into the card slot as shown below. The power to the computer can be on or off. Without forcing the card, push until it seats firmly.

If you do not know how to insert cards in your computer, refer to the documentation supplied with your computer on using PC Card (PCMCIA) slots.

Cabling the LAN Card and Connecting to the Network

All connectors should seat easily without forcing.

With the icon side up, attach the PC card cable to the LAN card as shown above. Connect the network cable to the PC card cable and to the network port.

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Disconnecting the Cable from the Card

The PC card cable locks in place when you connect it to the card. Do not pull or twist it when disconnecting it from the LAN card.

To release the cable from the card, squeeze the release clips located on the sides of the connector, as shown in the following illustration.

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LAN Card LEDs

Once the card is connected to the network and the network drivers are installed (described in the following chapters) you will be able to use the connector LEDs to verify link integrity.

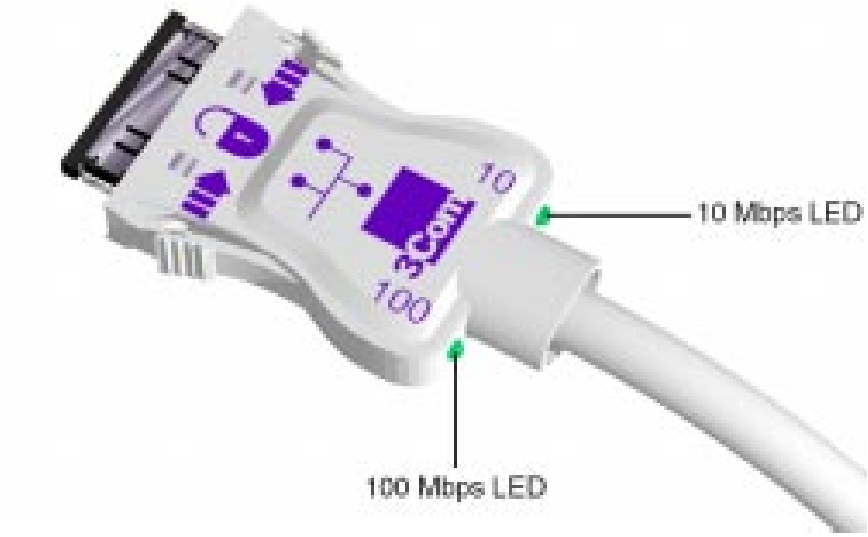

Table 1 LAN Connector LEDs

LED	On	Off	Flashing
10 Mbps	Good 10BASE-T connection between PC Card and hub	No connection. (Off when 100 LNK LED is on.)	There may be a problem with your physical connection. Check that all cables are connected securely.
100 Mbps	Good 100BASE-TX connection between PC Card and hub	No connection. (Off when 10 LNK LED is on.)	

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2 SETUP FOR WINDOWS 98

Before You Begin Installation

Before installing the network driver software, obtain the following information from your MIS department:

- For Windows 98 networking, your computer name and workgroup name.
- For your network account, your user name and password.

Setup Procedure

1. **Install the card as described in Chapter 1.**

   Windows 98 automatically detects the card, displays a *New Hardware Found* dialog box, and looks for information about the card.

2. **When ready to configure the new hardware, Windows 98 opens the *Add New Hardware Wizard.* Select *Search for the best driver for your device* and click *Next*.**

3. **Select *Floppy Drives,* insert the LAN card *Installation Disk*, and click *Next*.**

4. **After finding the files on the disk, the hardware wizard displays the card name, *FE574B-3Com 10/100 LAN PCCard-Fast Ethernet*. Click *Next* to copy the required files.**

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5 **Insert the Windows 98 CD if prompted. Optionally, you may specify a location on the hard disk where the Windows 98 files reside. Typically, this location is C:\WINDOWS\OPTIONS\CABS. Click *OK* to copy the files needed for the Ethernet interface.**

There may be a period of inactivity while the system checks your current network configuration. How much time this takes depends on your settings for network software components.

6 **Click *Finish*. When Windows 98 prompts whether to reboot the computer, remove the *Installation Disk* from the floppy drive and click *YES*.**

Confirming Installation

1 **Double-click the *My Computer* icon.**

2 **Double-click the *Control Panel* icon.**

3 **Double-click the *System* icon. The System Properties box appears, detailing your system setup.**

4 **Click the *Device Manager* tab. A list of devices appears, arranged by type.**

5 **Double-click *Network Adapters*. The LAN card name, *FE574B-3Com 10/100 LAN PCCard-Fast Ethernet,* appears, confirming successful installation.**

6 **Double-click the entry for the LAN card to display a description of the card and its current status. The device status should indicate "This device is working properly."**

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Troubleshooting Windows 98 Installations

Basic troubleshooting, applicable for all problem situations.	Inspect all cables and connections. Check whether your card is fully inserted into the slot. Verify that you have the latest BIOS for your system. If not, check the Web site for your computer and follow the BIOS upgrade instructions. Check for multiple installations of the card. Check whether your system's PCMCIA or CardBus Controller is installed and running properly: go to Control Panel/System/Device Manager/PCMCIA Card. Verify that the controller is present and shows no errors. Open Control Panel/PC Card to confirm that the system recognizes your card. In Control Panel/Network make sure that you have the correct clients and protocols installed.
The LAN device is not functional. LED on the connector is off or mismatches the real network speed.	Use Control Panel/System/Device Manager to inspect the status of your LAN card. If you see a red "X", enable the card by checking the appropriate box under Properties. If you see a yellow exclamation mark, click the icon to see what the conflict is. Verify that there are adequate system resources. Try to free system resources (for example, disable the infrared port), then remove and reinstall the card.
Losing network connection after disconnecting or changing the media speed.	This can occur when using NetWare servers and IPX/SPX protocol. It happens when the frame type is selected automatically. A temporary solution is to reboot after disconnecting and reconnecting the cable in NetWare networks. The permanent solution is to use specific frame types such as 802.2 or 802.3.
Need to force speed and duplex settings.	In most cases, the automatic settings work fine. However, if you to need to force speed or duplex settings to match those of an attached device: 1 Open Control Panel/Network 2 Double click the LAN card. 3 Click the Advanced tab. 4 Highlight Network Link Selection and choose the correct speed.

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Slow or dropped connection on a 10/100 switch or hub.	The switch may be forced to 10 Mbps. Open Control Panel/Network/Advanced and disable Auto Polarity. 1 Open Control Panel/Network 2 Double click the LAN card. 3 Click on the Advanced tab. 4 Highlight Automatic Polarity Selection and choose Disable.

Uninstalling the Card

Sometimes previous or unfinished installations leave problems that affect card operation. If the card installation is unsuccessful for any reason, your best course may be to remove the card and its software and repeat the installation procedures with a fresh installation of the operating system. Possible problems may be indicated if:

- The card is not working.
- Windows 98 is not detecting the card.
- The system issues a warning tone at startup.

If you are having any of these problems:

1. **Open Control Panel/System/Device Manager.**
2. **Select the LAN card components and click *Remove*.**
3. **Remove the LAN card from the card slot.**
4. **Reboot and reinstall the card.**

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3 SETUP FOR WINDOWS 95

Before You Begin Installation

- Determine which version of Windows 95 is installed on your computer.
- Obtain the *Installation Disk* that shipped with the LAN Card.
- Ask the MIS department for your network file server name, your network account user name, and your password.

Determining Your Windows 95 Version

Before setting up the card, you must know which version of Windows 95 is installed on your computer. Version A, an early version of Windows 95, is still installed on many computers. Most newer computers, especially those which come with Windows 95 already installed, run OSR 2 (also called version B or version C). These versions of Windows 95 require different files and different setup procedures.

Follow these steps to find out which version of Windows 95 you are running:

1. **In the Windows 95 Control Panel, double-click *System* to display the System Properties dialog box.**
2. **Click the *General Tab* to display the Windows 95 version information.**
   - Version A is identified as 4.00.950 or 4.00.950a.
   - OSR 2 is identified as 4.00.950b or 4.00.950c.

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Setup Procedures

Windows 95 Version A

If a "New Hardware Found" dialog box appears, skip to step 8.

1. **Open the Control Panel and double click the PCMCIA icon.**

   If you are asked whether you are using a PC Card to install windows, ignore the prompt.

2. **Click *Next*.**
3. **Click *No* to the prompt about real-mode drivers.**
4. **Click *Next* if prompted to remove the Real Mode drivers.**
5. **Click *Finish*.**
6. **Click *Yes* to shut down the PC.**
7. **When shutdown is complete, install the LAN card as described Chapter 1 and reboot.**
8. **After reboot, when the New Hardware Found dialog box appears, select *Driver from disk provided by hardware manufacturer* and click *OK*.**
9. **Insert the *Installation Disk* in drive A and click *OK*.**
10. **If the software prompts for Location Information, enter the requested location information and click *OK*.**

    If the software prompts for Computer Name and Work Group Name, type the names as supplied by your MIS department and click *OK*.

    - The computer name is the name of your PC (up to 15 characters, no blank spaces).
    - A workgroup is composed of a community of PCs and contains shared resources (such as printers).
    - If you use peer-to-peer networking, the workgroup name is your peer group.

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11 **If you are prompted for Windows 95 files, enter the directory path for Windows 95 (on most hard disks, c:\windows\options\cabs) or insert the Windows 95 CD and specify the \WIN95 directory.**

When installation is complete, Windows 95 prompts for restart.

12 **Remove the *Installation Disk* and click *Yes*.**

When the software restarts, log on to your network using the user name and password supplied by your MIS department.

Windows 95 OSR 2

If a "Update Device Driver Wizard" dialog box apprears, skip to step 8.

1 **Open the Control Panel and double click the PCMCIA icon.**

If you are asked whether you are using a PC Card to install windows, ignore the prompt.

2 **Click *Next*.**

3 **Click *No* to the prompt about real-mode drivers.**

4 **Click *Next* if prompted to remove the Real Mode drivers.**

5 **Click *Finish*.**

6 **Click *Yes* to shut down the PC.**

7 **When shutdown is complete, install the LAN card as described Chapter 1 and reboot.**

8 **Follow the instructions in the *Update Device Driver Wizard* dialog box. Insert the LAN card *Installation Disk* in the floppy drive and click *Next*.**

If the Update Device Driver window does not appear, see the troubleshooting table at the end of this chapter.

9 **After the system finds the installation files on the disk, it displays the card name, *FE574B-3Com 10/100 LAN PCCard-Fast Ethernet*. and prompts for the location of the driver files.**

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10 **Click *Finish* to copy the files needed for the Ethernet interface.**

- If prompted for the LAN Card *Installation Disk*, indicate the floppy drive as the location of the files.
- If prompted for Windows 95 files, indicate your CD-ROM drive or type the path to the directory where your Windows 95 files reside. Normally, this path is C:\WINDOWS\OPTIONS\CABS.

Click *OK* to finish copying the required files.

11 **If Windows 95 opens the Network Setup box, supply your computer name and workgroup name, then click *Close*.**

12 **When Windows 95 prompts whether to reboot the computer, remove the *Installation Disk* from the floppy drive and click *YES*.**

Confirming Installation (Version A and OSR 2)

1 **Double-click the *My Computer* icon.**

2 **Double-click the *Control Panel* icon.**

3 **Double-click the *System* icon. The System Properties box details your system setup.**

4 **Click the *Device Manager* tab.**

5 **From the list of devices, double-click *Network Adapters*. The display should show the LAN card name, confirming successful installation.**

6 **Double-click the entry for the LAN card to display a description of the card and its current status. It should display "This device is working properly."**

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Troubleshooting Windows 95 Installations

Symptom	Solution
Basic troubleshooting, applicable for all problem situations.	Inspect all cables and connections. Check whether your card if fully inserted into the slot. Verify whether you have the latest BIOS for your system. If not, check the Web site for your computer and follow the BIOS upgrade instructions. Check for multiple installations of the card. Check whether your system's PCMCIA or CardBus Controller is installed and running properly: go to Control Panel/System/Device Manager/PCMCIA Card. Verify that the controller is present and shows no errors. Open Control Panel/PC Card to confirm that the system recognizes your card. In Control Panel/Network application, make sure that you have the correct clients and protocols installed.
At installation, Update Device Driver window does not appear.	The LAN card may have already been installed. The LAN card may have been installed as "Other Devices" because of a previous faulty installation. PCMCIA may not be enabled on your system.
The LAN device is not functional. LED on the connector is off or mismatches the real network speed.	Use Control Panel/System/Device Manager to inspect the status of your LAN card. If you see a red "X", enable the card by checking the appropriate box under Properties. If you see a yellow exclamation mark, click on the icon to see what the conflict is. Verify that there are adequate system resources. Try to free system resources (for example, disable the infrared port), then remove and reinstall the card.
Losing network connection after disconnecting or changing the media speed	This can occur when using NetWare servers and IPX/SPX protocol. It happens when the frame type is selected automatically. A temporary solution is to reboot after disconnecting and reconnecting the cable in NetWare networks. The permanent solution is to use specific frame types such as 802.2 or 802.3.

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Need to force speed and duplex settings.	In most cases, the automatic settings work fine. However, if you to need to force speed or duplex settings to match those of an attached device: 1 Open Control Panel/Network 2 Double click the LAN card. 3 Click on the Advanced tab. 4 Select Network Link Selection and choose the correct speed.
Slow or dropped connection on a 10/100 switch or hub.	The switch may be forced to 10 Mbps. Open Control Panel/Network/Advanced and disable Auto Polarity. 1 Open Control Panel/Network 2 Double click the LAN card. 3 Click on the Advanced tab. 4 Highlight Automatic Polarity Selection and choose Disable.

Uninstalling the Card

Sometimes previous or unfinished installations leave problems that affect card operation. If the card installation is unsuccessful for any reason, your best course may be to remove the card and its software and repeat the installation procedures with a fresh installation of the operating system. Possible problems may be indicated if:

- The card is not working.
- Windows 95 is not detecting the card.
- The system issues a warning tone at startup.

If you are having any of these problems:

1. **Open Control Panel/System/Device Manager.**
2. **Select the LAN card components and click *Remove*.**
3. **Remove the LAN card from the card slot.**
4. **Reboot normally and reinstall the card.**

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4 SETUP FOR WINDOWS NT

Before You Begin Installation

Which Windows NT setup procedure you use depends on whether networking has already been installed on your computer. Verify with your MIS department which network driver installation instructions you should use.

Before setting up the card, you will need to know:

- Your network file server name, network account user name, and password.
- The Protocol used in the Microsoft Windows network (NWLink IPX/SPX compatible transport, TCP/IP protocol, NetBEUI protocol).
- The Name of the NT Server domain or workgroup to which you belong.
- Your IP address (unless you are using DHCP).

Setup Procedure

Setup With No Networking Installed

1. **In the Control Panel, double-click *Network*.**
2. **When the system prompts: "Windows NT Networking is not installed. Do you want to install it now?", click *Yes*. This opens the *Network Setup Wizard*.**
3. **Check *Wired to the network* and click *Next*.**
4. **When the system prompts to have setup start searching for a network adapter, click *Select from List*.**
5. **Click *Have Disk*. Put the *Installation Disk* in the floppy drive and click *OK*.**

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6 **When the Select OEM Option window opens, select *FE574B-3Com 10/100 LAN PCCard-Fast Ethernet* and click *OK*.**

7 **The *Network Adapters* list shows a check mark next to the 3Com LAN card. Click *Next* to continue.**

8 **In the Network Protocols list, place a check mark next to each network protocol required for your site and click *Next*.**

9 **In the Network Services window, place a check mark in the box next to each desired service. Unless you are following specific guidelines from your MIS department, select the default settings.**

10 **Click *Next* to install the selected components.**

11 **When prompted, enter the path to the Windows NT installation files (for example, D:\i386 on the NT CD) and click *Continue*.**

When the system prompts again for NT files, click *Continue*.

12 **In the 3Com LAN card dialog box, accept the default settings and click *Continue*.**

The default settings work in most instances. However, you may specify network link settings, auto polarity, and IRQ and I/O values.

13 **When the window for enabling or disabling protocols opens, click *Next*.**

14 **When NT is ready to start the network, click *Next* to copy the network files.**

15 **Provide your computer name and workgroup or domain name when prompted.**

16 **When the system displays "Networking has been installed on your computer," click *Finish*.**

17 **When prompted to reboot the computer, remove the *Installation Disk* from the floppy drive and click *Yes*.**

If you had Service Pack 3 installed prior to setting up the LAN card, you should reinstall it now.

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Setup With Networking Installed

1. **In the Control Panel, double-click *Network*.**
2. **Open the Adapter tab and click *Add*.**
3. **Click *Have Disk*. Put the *Installation Disk* in the floppy drive and click *OK*.**
4. **When the Select OEM Option window opens, select *FE574B-3Com 10/100 LAN PCCard-Fast Ethernet* and click *OK*.**
5. **In the 3Com LAN card dialog box, accept the default settings and click *Continue*.**

   The default settings work in most instances. However, you may specify network link settings, auto polarity, and IRQ and I/O values.
6. **After Windows copies all of the required files, it displays the LAN card name, *FE574B-3Com 10/100 LAN PCCard-Fast Ethernet. C*lick *Close*.**
7. **Depending on your current network settings, you may see the Microsoft TCP/IP Properties screen.**
8. **When prompted to reboot the computer, remove the *Installation Disk* from the floppy drive and click *Yes*.**

Troubleshooting Windows NT Installations

Basic troubleshooting, applicable for all problem situations.	Inspect all cables and connections. Check whether your card if fully inserted into the slot. Verify whether you have the latest BIOS for your system. If not, check the Web site for your computer and follow the BIOS upgrade instructions. The event log lists any problems found during system operation. To check the event log for errors, select Programs/Admin Tools/Event Viewer from the Start menu.
Failure after Suspend/Resume.	This usually indicates a power-management problem. Since Windows NT 4.0 does not support power management, we recommend that you disable power management in the BIOS. Make sure you have the latest BIOS for your computer or upgrade your software from Microsoft.

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Card not functioning.	Open Windows NT Diagnostics. From Start menu, select Programs/Admin Tools/Windows NT Diagnostics. Check for resource conflicts and make sure the settings for the LAN card are valid.
Need to force speed and duplex settings.	In most cases, the automatic settings work fine. However, if you need to force speed and duplex settings to match those of an attached device: 1 Open Control Panel/Network. 2 Click on the Adapters tab. 3 Select Link Settings and specify the desired values.
Slow or dropped connection on a 10/100 switch	The switch may be forced to 10Mbps. Open Control Panel/Network. Click on the Adapters tab, select Properties, and disable Auto Polarity.

Uninstalling the Card

Sometimes previous or unfinished installations leave problems that affect card operation. If the card installation is unsuccessful for any reason, your best course may be to remove the card and its software and repeat the installation procedures with a fresh installation of the operating system. Possible problems may be indicated if:

- The card is not working.
- Windows NT is not detecting the card.
- The system issues a warning tone at startup.

If you are having any of these problems:

1. **Remove the LAN card from the card slot.**
2. **Open Network/Adapters.**
3. **Select *FE574B-3Com 10/100 LAN PCCard-Fast Ethernet* and click *Remove*.**
4. **Reboot and reinstall the card.**

   This procedure removes the card only. Users who choose to remove all networking components should remember to use the setup procedure described in "Setup With No Networking Installed" on page 15.

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5 HELP AND SUPPORT

Other Operating Systems Supported

The LAN card supports Windows NT 3.51, Windows for Workgroups, Windows 3.x, and DOS.

In addition, the LAN card supports AutoLink for Novell NetWare under Windows 3.x, Windows for Workgroups, and DOS.

Information on setting up the card for these operating systems is available in the on-line documentation supplied with the LAN card. For setup information and details, see "On-Line Documentation".

Other Networks Supported

The LAN card supports the networking systems listed in Table 2.

Table 2 Network Drivers Supported

NDIS 3 32-bit miniport driver	NetWare
NDIS 2 real mode driver	Banyan VINES
IBM LAN Server (DOS)	Microsoft LAN Manager
Artisoft LANtastic	DEC PATHWORKS

For information on setup for these networks, see the DOS Diagnostics help files. Refer to "DOS Diagnostics Help Library" on page 20.

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On-Line Documentation

You must have a Web browser installed to open the LAN card on-line help. A connection to the network is not required for reading the document, although active links to key 3Com Web sites are supported.

Windows 98, Windows 95, and Windows NT 4.0

To install the help document for Windows 98, Windows 95, Windows NT put the *Installation Disk* in the floppy drive, open the Start menu and select Run, and run A:\WINSETUP.

When setup is complete, you can open the document with your browser:

1. **Click the *Windows Start* menu.**
2. **Select *Programs*.**
3. **Select *3Com PC Card Utilities*.**
4. **Select *3Com FE574B*.**
5. **Select *On-Line Help*.**

Windows NT 3.51, Windows 3.x, DOS

DOS, Windows 3.x, and Windows NT 3.51 users can open the HTML file directly from the floppy drive. From your browser, open A:\HTML\HELP574.HTM.

To install the help document on your hard disk, create a top-level directory called \HELP574. Copy the files from A:\HTML to the new folder. From your browser, open C:\HELP574\HELP574.HTM.

DOS Diagnostics Help Library

If you do not have a Web browser, you can find more information in the DOS Diagnostics help library. To run Diagnostics, put the *Installation Disk* in your floppy drive and run A:\INSTALL.

For details on running the DOS diagnostics program, see the INSTRUCT.TXT file in the HELP directory on the *Installation Disk*.

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Online Technical Services

3Com offers worldwide product support 24 hours a day, 7 days a week, through the following online systems:

- World Wide Web site
- 3Com FTP site
- 3Com Bulletin Board Service (3Com BBS)
- 3ComFacts℠ automated fax service

World Wide Web Site

Access the latest networking information on the 3Com Corporation World Wide Web site by entering the URL into your Internet browser:

`http://www.3com.com/`

This service provides access to online support information such as technical documentation and software library, as well as support options ranging from technical education to maintenance and professional services.

3Com FTP Site

Download drivers, patches, software, and MIBs across the Internet from the 3Com public FTP site.

To connect to the 3Com FTP site, enter the following information into your FTP client:

- Hostname: **`ftp.3com.com`** (or **`192.156.136.12`**)
- Username: **`anonymous`**
- Password: **`<your Internet e-mail address>`**

A user name and password are not needed with Web browser software such as Netscape Navigator and Internet Explorer.

3Com Bulletin Board Service

The 3Com BBS contains patches, software, and drivers for 3Com products. This service is available through analog modem or digital modem (ISDN)

To reach the service by analog modem at a data rate of up to 53,333 bps, set your modem to 8 data bits, no parity, and 1 stop bit and dial **1 847 262-6000** to connect.

For faster access (up to 64 Kbps), ISDN users can dial the same number using a digital modem.

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3ComFacts Automated Fax Service

The 3ComFacts automated fax service provides technical articles, diagrams, and troubleshooting instructions on 3Com products. Use a touch-tone telephone and dial **1 408 727-7021** to connect.

Support from Your Network Supplier and 3Com

Many suppliers are authorized 3Com service partners who are qualified to provide a variety of services, including network planning, installation, hardware maintenance, application training, and support services.

When you contact your network supplier for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels
- Diagnostic error messages
- Details about recent configuration changes, if applicable

If you are unable to obtain assistance from the 3Com online technical resources or from your network supplier, 3Com offers technical telephone support services. To contact 3Com from North America, dial **1 800 NET 3Com** (**1 800 638-3266**). Have product information ready as described above.

Refer to on-line help for information on international customer support.

Returning Products for Repair

Before you send a product directly to 3Com for repair, you must first obtain a Return Materials Authorization (RMA) number. Products sent to 3Com without RMA numbers will be returned to the sender unopened, at the sender's expense.

To obtain an RMA number, call **1 800 NET 3Com** (**1 800 638-3266**) or send a fax to **1 408 326-7120**.

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3Com Corporation LIMITED WARRANTY

HARDWARE

3Com warrants its hardware products to be free from defects in workmanship and materials, under normal use and service, for the following lengths of time from the date of purchase from 3Com or its authorized reseller:

Network Interface Cards	Lifetime
Other hardware products *unless otherwise specified above	1 year*
Spare parts and spares kits	90 days

If a product does not operate as warranted above during the applicable warranty period, 3Com shall, at its option and expense, repair the defective product or part, deliver to Customer an equivalent product or part to replace the defective item, or refund to Customer the purchase price paid for the defective product. All products that are replaced will become the property of 3Com. Replacement products may be new or reconditioned. Any replaced or repaired product or part has a ninety (90) day warranty or the remainder of the initial warranty period, whichever is longer.

SOFTWARE

3Com warrants that the software programs licensed from it will perform in substantial conformance to the program specifications therefor for a period of ninety (90) days from the date of purchase from 3Com or its authorized reseller. 3Com warrants the media containing software against failure during the warranty period. No updates are provided. 3Com's sole obligation with respect to this express warranty shall be (at 3Com's discretion) to refund the purchase price paid by Customer for any defective software products, or to replace any defective media with software which substantially conforms to applicable 3Com published specifications. Customer assumes responsibility for the selection of the appropriate applications program and associated reference materials. 3Com makes no warranty or representation that its software products will meet Customer's requirements or work in combination with any hardware or applications software products provided by third parties, that the operation of the software products will be uninterrupted or error free, or that all defects in the software products will be corrected. For any third party products listed in the 3Com software product documentation or specifications as being compatible, 3Com will make reasonable efforts to provide compatibility, except where the non-compatibility is caused by a "bug" or defect in the third party's product.

YEAR 2000 WARRANTY

In addition to the Hardware Products Warranty and Software Products Warranty identified above, 3Com warrants that all Heritage 3Com products sold or licensed to Customer on and after January 1, 1998 that are date sensitive will continue performing properly with regard to such date data on and after January 1, 2000, provided that all other products used by Customer in connection or combination with the 3Com products, including hardware, software, and firmware, accurately exchange date data with the 3Com products, with the exception of those products identified at 3Com's Web site, http://www.3com.com/products/yr2000.html, as not meeting this standard. A product is considered a "Heritage 3Com product" if it is a member of a product family which was manufactured by 3Com prior to its merger with US Robotics Corporation. This Year 2000 limited warranty does not apply to Heritage US Robotics Corporation products. If it appears that any such product does not perform properly with regard to such date data on and after January 1, 2000, and Customer notifies 3Com before the later of April 1, 2000, or ninety (90) days after purchase of the product from 3Com or its authorized reseller, 3Com shall, at its option and expense, provide a software update which would effect the proper performance of such product, repair such product, deliver to Customer an equivalent product to replace such product, or if none of the foregoing is feasible, refund to Customer the purchase price paid for such product.

Any software update or replaced or repaired product will carry a Year 2000 Warranty for ninety (90) days or until April 1, 2000, whichever is later.

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OBTAINING WARRANTY SERVICE

Customer must contact 3Com's Corporate Service Center or an Authorized 3Com Service Center within the applicable warranty period to obtain warranty service authorization. Dated proof of purchase may be required. Products returned to 3Com's Corporate Service Center must be pre-authorized by 3Com with a Return Material Authorization (RMA) number marked on the outside of the package, and sent prepaid and packaged appropriately for safe shipment, and it is recommended that they be insured. The repaired or replaced item will be shipped to Customer, at 3Com's expense, not later than thirty (30) days after receipt of the defective product by 3Com.

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This Limited Warranty shall be governed by the laws of the State of California, U.S.A. excluding its conflicts of laws principles and excluding the United Nations Convention on Contracts for the International Sale of Goods.

3Com Corporation, 5400 Bayfront Plaza, Santa Clara, CA 95052-8145

FCC CLASS B STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from the one which the receiver is connected to.
- Consult the dealer or an experienced radio/TV technician for help.

The user may find the following booklet prepared by the Federal Communications Commission helpful: *The Interference Handbook*

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 004-000-00345-4.

Tested to comply with the FCC Standards for home and office use.

NOTE: In order to maintain compliance with the limits of a Class B digital device, 3Com requires that you use quality interface cables when connecting to this device. Changes or modifications not expressly approved by 3Com could void the user's authority to operate this equipment. Refer to the manual for specifications on cabling types.

FCC DECLARATION OF CONFORMITY

We declare under our sole responsibility that the

Model:	**Description:**
3CCFE574BT	3Com Megahertz 10/100 LAN PC Card

to which this declaration relates, is in conformity with the following standards or other normative documents:

- ANSI C63.4-1992 Methods of Measurement

Federal Communications Commission 47 CFR Part 15, subpart B
15.107 (e)Class B Conducted Limits
15.109 (g)Class B Radiated Emissions Limits

Responsible Party:

3Com Corporation, 5400 Bayfront Plaza, P.O. Box 58145, Santa Clara, CA 95052-8145
(408) 326-5000

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INDUSTRY CANADA CLASS B EMMISSION COMPLIANCE STATEMENT

This Class B digital apparatus complies with Canadian ICES-003.

AVIS DE CONFORMITÉ À LA RÉGLEMENTATION D'INDUSTRIE CANADA

Cet appareil numérique de la classe B est conform à la norme NMB-003 du Canada.

VCCI CLASS B STATEMENT

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This is Class B product based on the standard of the Voluntary Control Council for Interference from Information Technology Equipment (VCCI). If this used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

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SPECIFICATIONS

Specifications for the 3Com Megahertz 10/100 LAN PC Card (model 3CCFE574BT)

Network Interface

3CCFE574BT LAN PC Card	Ethernet IEEE 802.3 10BASE-T and Ethernet IEEE 802.3u 100BASE-TX standards

Physical Dimensions

Length	3.370 in (85.6 mm)
Height	0.197 in (5.0 mm)
Width	2.126 in (54 mm)
Weight	0.86 oz (24.4 g)

Environmental Operating Range

Operating temperature	0 to 55˚C (32 to 131˚F)
Relative humidity	5 to 90% noncondensing

Network Cable Specifications

UTP Cable Requirements:

Category 5 cable (100 Mbps) that meets the requirements of EIA/TIA-568 and EIA/TIA TSB-36 (for example, AT&T® type 1061 or equivalent)

Power Requirements

Power consumption		+5 V ± 5% @ 170 mA
	100BASE-TX	220 mA maximum 180 mA typical
	10BASE-T	130 mA maximum 100 mA typical

FCC Certification	Part 15, Class B

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